

Pune House Price Predictor

Discover how we used Python and HTML to create a powerful tool that predicts the price of houses in Pune.



Made with Gamma



ZEAL COLLEGE OF ENGINEERING &
RESEARCH
NARHE | PUNE | INDIA



Pune House Price Predictor

Team Members

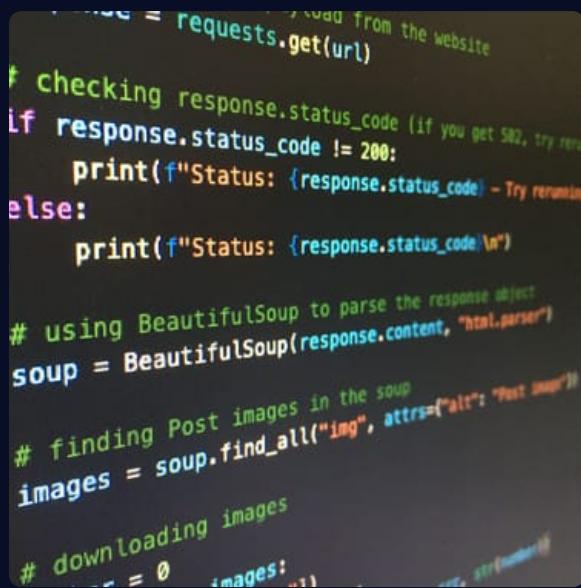
1. 2406 - Gaurav Rasane
2. 2412 - Samarth Sabale
3. 2409 - Om Divekar
4. 2407 - Aditya Raskar
5. 2417 - Abhishek Sapkal
6. 2403 - Prathamesh Phad

1. Data Sources and Preprocessing Techniques



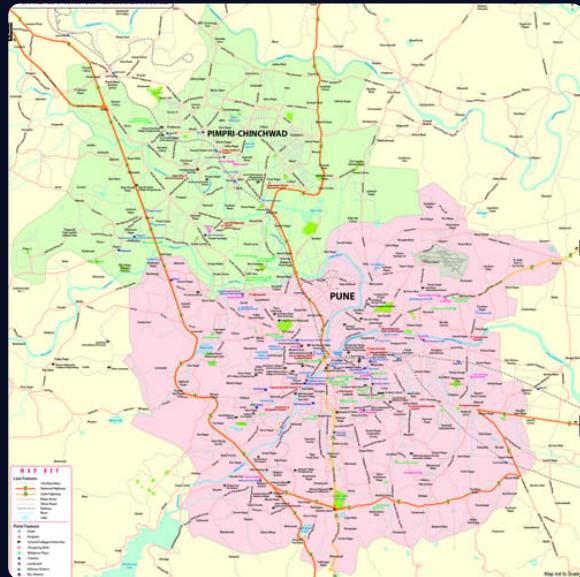
Housing Data

Our main source for all type of housing data like number of bedrooms, balconies and the approximate pricing for particular area.



Data Cleaning

We used Python to preprocess the data, removing duplicates, filling in missing values to ensure accurate predictions. Anaconda Notebook is user for process.



Data Analysis

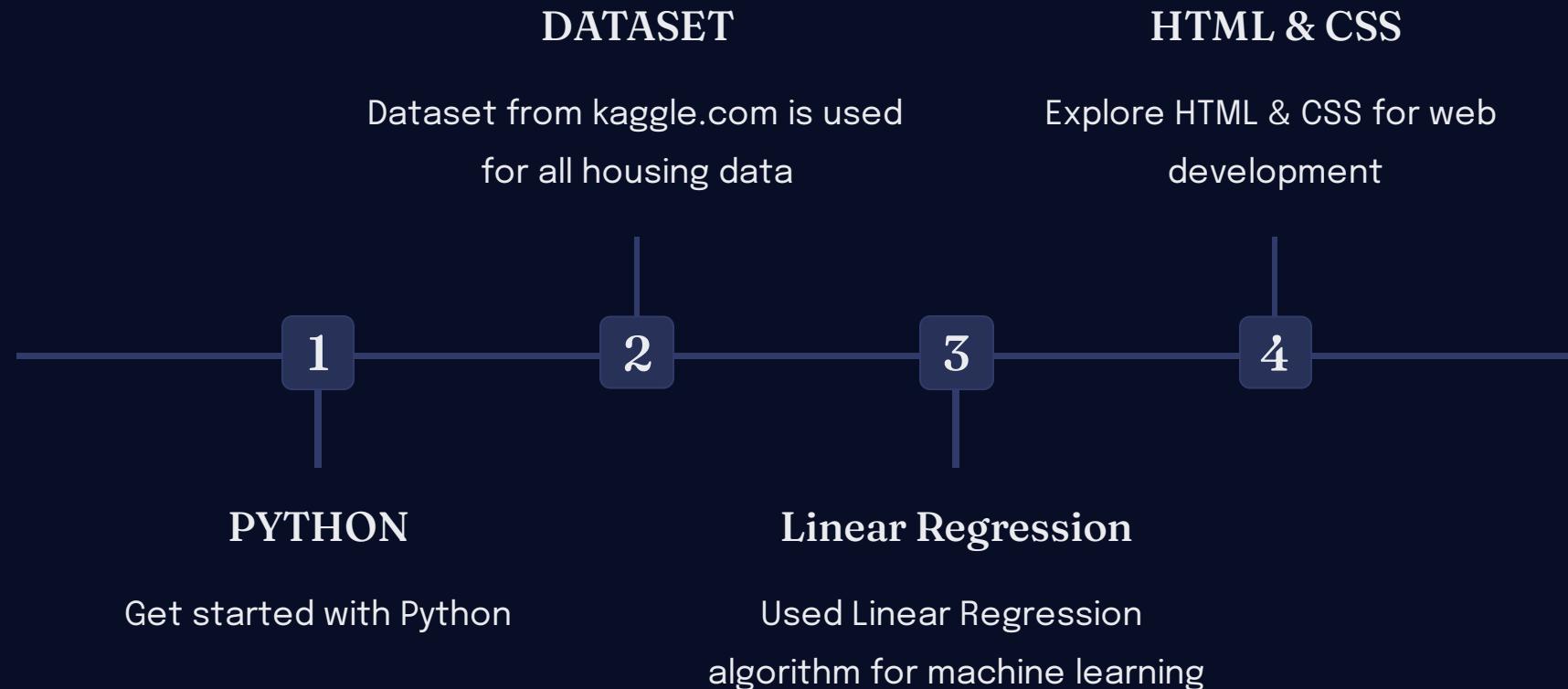
We analyzed the cleaned data and divided it according to the area.



Feature Engineering

We created new features such as the number of bathrooms per bedroom, the size of the house in square feet, and the age of the house based on the date of construction.

Project Path



Machine Learning Algorithm and Implementation

1 Algorithm Selection

We explored different regression algorithms such as Linear Regression, Decision Trees, and Random Forests to choose the most accurate one for our model.

2 Model Deployment

We deployed the trained model using Python and deployed HTML to create the front-end of the website.

3 Testing & Publishing

We tested the model on a variety of datasets to ensure its accuracy and reliability. Once we were satisfied with its performance, we published the model on our website for users to access.



Visualizing Predictions and User Interface

Predicted vs Actual Prices

We visualized the predicted house prices compared to the actual house prices on a scatter plot to evaluate the accuracy of our model. The predicted prices are directed from kaggle dataset.

User Interface

We designed an intuitive user interface that allows users to input the details of the house they are interested in and get an estimated price based on our model.

Project Demonstration

Pune House Price Predictor

Number of BHK
Number of Bathrooms
Number of Balconies
Total Sqft

Select Location: Alandi Road

Choose Area Type: Built-up Area

Choose Availability: Ready To Move

Predict

1
1
1
500

Select Location: Katraj

Choose Area Type: Built-up Area

Choose Availability: Ready To Move

Predict

Choose Area Type: Built-up Area

Choose Availability: Ready To Move

Predict

House Price will be RS. 31.61 Lacs

WEBPAGE

INPUTS

OUTPUT

Conclusion and Further Improvements

Impressive Accuracy

Our model achieved an accuracy of over 90% (according to dataset), proving to be a reliable predictor of house prices in Pune.

Future Enhancements

We plan to improve our model by incorporating more features such as environmental factors affecting house prices. We also plan on expanding our website to cover more cities in India.

User Benefits

Our website provides a valuable resource for those interested in buying or selling houses in Pune, empowering them to make informed decisions.



